

AMENDMENT

To the Title:

Please amend the title of invention as indicated hereinafter. Specifically, the brackets (“[” , “]”) at the beginning and the end of the title are removed as per the Examiner’s instruction.

~~“[COLOR CORRECTION CIRCUIT OF DISPLAY AND CORRECTION METHOD THEREOF]~~
COLOR CORRECTION CIRCUIT OF DISPLAY AND CORRECTION METHOD THEREOF”

To the Specification:

Please amend the as-filed paragraph [0011] as follows.

[0011] According to an embodiment of the present invention, the color correction circuit is coupled to a video source and a display panel. The color correction circuit comprises a video look-up circuit, N+M bit data driving circuit and N+M bit data gamma voltage generating circuit. The video look-up circuit inside the color correction circuit modulates N bit video data from the video source into N+M bit video data according to a color look-up table. The modulated video data is transmitted to the N+M bit data gamma voltage generating circuit through the N+M bit data driving circuit. The N+M bit data gamma voltage generating circuit provides the voltages in every step based on the color of the N+M bit video data and the values in the gamma color correction table that corresponds to the N+M bit video data.

Please amend the as-filed paragraph [0017] as follows.

[0017] The present invention is also directed to a method of correcting the colors of a display. The method includes the following steps. After receiving N bit video data, the N bit video data is modulated into N+M bit video data according to a color look-up table. Thereafter, the voltage in every step is provided based on the color of the N+M bit video data and the values in a gamma color correction table that corresponds to the N+M bit video data. Finally, the voltages are used to drive the display panel.

Please amend the as-filed paragraph [0028] as follows.

[0028] Fig. 2 is a flow diagram showing the steps for correcting the colors in a display according to one embodiment of the present invention. As shown in Figs. 1 and 2, the video look-up circuit 110 picks up N bit video data of the color red, green and blue from the video source (in step s202). According to a built-in color look-up table, the N bit video data of the colors are modulated into N+M bit video data and then output to the N+M bit data driving circuit 120 (in step s204). On receiving the modulated N+M bit video data, the N+M bit data driving circuit 120 transmit the video data to the N+M bit data gamma voltage generating circuit 130. Thereafter, the N+M bit data gamma voltage generating circuit 130 provides the voltages at every step according to the color of the N+M bit video data and the values in a gamma color correction table that correspond to the N+M bit video data (in step s206). The N+M bit data gamma voltage generating circuit 130 can be a gamma correction circuit. However, the scope of the present invention is not limited as such.